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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/939,711	08/28/2001	Yuuji Tanjo	50195.269	2733	
20277	7590 05/03/2006	EXAMINER			
	TT WILL & EMERY	MERCADO, JULIAN A			
600 13TH STI WASHINGTO	DN, DC 20005-3096		ART UNIT	PAPER NUMBER	
			1745	" *	
		•	DATE MAIL ED: 05/02/2004	DATE MAILED: 05/02/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	Applicant(s)		
Office Action Summary		09/939,711	TANJO ET AL.	TANJO ET AL.		
		Examiner	Art Unit			
		Julian Mercado	1745			
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet with the	e correspondence ad	ldress		
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPL' CHEVER IS LONGER, FROM THE MAILING Dansions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. To period for reply is specified above, the maximum statutory period or re to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATE 36(a). In no event, however, may a reply be will apply and will expire SIX (6) MONTHS fro, cause the application to become ABANDO	ON. It timely filed om the mailing date of this on NED (35 U.S.C. § 133).			
Status						
1)[Responsive to communication(s) filed on					
'=	•	_· action is non-final.				
′—	<i>'</i> —	s in condition for allowance except for formal matters, prosecution as to the merits is				
,—	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Dispositi	on of Claims	·				
4)⊠	Claim(s) <u>19,20,23,26-37,39,40,42 and 47</u> is/ar	e pending in the application.	•			
	4a) Of the above claim(s) is/are withdrawn from consideration.					
5)⊠	5) Claim(s) <u>19,20,23,26-37 and 42</u> is/are allowed.					
6)⊠	⊠ Claim(s) <u>30,40 and 47</u> is/are rejected.					
7)						
8)[Claim(s) are subject to restriction and/or election requirement.					
Applicati	on Papers					
9)[The specification is objected to by the Examine	ır.				
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)	The oath or declaration is objected to by the Ex	caminer. Note the attached Offi	ce Action or form PT	ГО-152.		
Priority ι	under 35 U.S.C. § 119					
,	12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a)	a) All b) Some * c) None of:					
	1. Certified copies of the priority documents have been received.					
	2. Certified copies of the priority documents have been received in Application No					
	3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.						
Attachmen	t(s)					
	e of References Cited (PTO-892)	4) Interview Summa				
	e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	Paper No(s)/Mail 5) Notice of Informa	Date Il Patent Application (PT0	D-152)		
	r No(s)/Mail Date	6) Other:	, , , , ,	-		

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DETAILED ACTION

Remarks

This Office action is supplemental to that mailed on February 24, 2006. Applicant's representative, Mr. Bernard Codd, requested from the examiner clarification on the rejection of claim 42. Upon further consideration, the prior art rejection of claim 42 has been withdrawn. The period for reply has been restarted.

Claims 19, 20, 23, 26-37, 39, 40, 42 and 47 are pending.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 39, 40 and 47 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ochoa et al. (U.S. Pat. 6,046,268)

The rejection is maintained for the reasons of record. The examiner maintains that with respect to the claimed porosity ranges, particle diameters and thicknesses of the electrode, absent of unexpected results it is asserted that these are optimizable parameters for result-effective variables. *In re Boesch*, 617 F.2d 272, 205 USPQ 215 (CCPA 1980) Applicant's arguments have been fully considered, to wit, applicant submits that the initial burden of clear and factual findings has not been discharged. In reply, the examiner is of the position that the prosecution

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record had already established these parameters as result-effective variables. For example, Ochoa et al. in col. 3 line 66 et seq. establishes that particle diameters (and hence concomitant interstitial porosities) "will have very high surface area and highly efficient packing," "will enhance the adhesion of an electrode coating to a substrate," and will "inhibit binder polymers in an electrode composite from migrating away from the interface at the substrate during deposition," *inter alia*. The examiner also relies on evidence that has been established on the record (U.S. Pat. 6,432,585 B1 to Kawakami et al. and JP-31498 to Kohama) to show that electrode thickness directly affects battery capacity. Refer to the November 8, 2004 Office action on page 3 for a detailed discussion and citation of the prior art presently relied upon as evidence teachings.

Allowable Subject Matter

Claims 19, 20, 23 and 26-37 are allowed for the reasons already of record.

Upon further consideration, claim 42 is allowed. With respect to claim 42, the following is a statement of reasons for the indication of allowable subject matter: the prior art of record does not teach or suggest the claimed invention regarding first and second active material layers wherein the first active material layer has a porosity lower that that of the second active material layer, and wherein the first and second active material layers have particles of the same particle size. To this extent, the reasons for allowance of claim 42 is as similarly set forth for claims 24 and 43 in the July 11, 2005 Office action.

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Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Julian Mercado whose telephone number is (571) 272-1289. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick J. Ryan, can be reached on (571) 272-1292. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR

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system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0661.

PATRICK JOSEPH RYAN
SUPERVISORY PATENT EXAMINER